

Application No.: 10/643,862

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Amendments to the Claims

1. (Currently Amended) A method of mixing predetermined fixed volumes of two or more liquids in microfluidic devices comprising:

(a) dispensing through capillary passageways at least a first predetermined fixed liquid volume from a first liquid well in a microfluidic device, said first well containing said first predetermined fixed liquid volume and a second predetermined fixed liquid volume from a second liquid well in said microfluidic device, said second well containing said second predetermined fixed liquid volume into a first chamber to form a combined liquid volume, said first chamber having a volume larger than said combined liquid volume;

(b) discharging said combined liquid volume of (a) from said first chamber into a second chamber via one capillary passageway or via two or more separated capillary passageways, to complete mixing of said combined liquid volume, said second chamber having a volume larger than said combined volume.

2. (Previously Presented) A method of mixing liquids of Claim 1 wherein said combined liquid volume of (a) is discharged into said second chamber through two or more separated capillary passageways.

3. (Previously Presented) A method of mixing liquids of Claim 2 wherein said combined liquid volume of (a) is discharged into said second chamber through at least three separated capillary passageways.